

## I CLAIM:

1. An adjustable ladder step platform pivotally mountable at different elevations on a ladder, the ladder step platform including a tread mounted between two side plates with  
5 cylindrical protruding means extending inwardly from each side plate; the cylindrical protruding means forming axle means insertable into a hollow ladder rung to pivotally mount adjustable ladder step platform on the ladder; and abutment means extending inwardly from each side plate below the cylindrical protruding means, the abutment means being positioned to engage the ladder to prevent further rotation of the adjustable  
10 ladder step platform so that the tread extends generally horizontally beyond the ladder to form a flat support surface providing a more stable support than the ladder rungs.
2. The adjustable ladder step platform of claim 1 wherein the cylindrical protruding means comprises a single rod insertable through a hollow ladder rung and extending through both side plates.
- 15 3. The adjustable ladder step platform of claim 1 wherein the abutment means comprises a rod extending through the hollow ladder rung and extending through both side plates.
4. The adjustable ladder step platform of claim 3 wherein each side plate includes a series of pairs of aligned holes, each pair of aligned holes being capable of receiving a  
20 single rod extending through the hollow ladder rung, the series of pairs of aligned holes being mutually positioned to allow adjustment of the ladder so that the tread can be positioned substantially horizontally when the ladder is positioned at different angles.
5. The adjustable ladder step platform of claim 1 wherein the side plates are attachable to the tread, at least one of the side plates being laterally adjustable relative to  
25 the tread so that the adjustable ladder step platform can be mounted on ladders having differing widths.
6. A ladder step platform attachable to and detachable from a ladder having hollow rungs at different elevations on the ladder to provide a more stable support for a user of the ladder, the ladder step platform comprising:

a tread spanning spaced apart parallel side plates extending substantially perpendicular relative to the tread, each side plate having a mounting opening horizontally aligned with a mounting opening in the parallel spaced apart side plate;

5 a support rod having a length greater than the spacing between spaced apart side plates, the support rod being insertable through and detachable from the aligned upper openings and through a hollow rung flanked by the two spaced apart parallel side plates; and

10 a stop member insertable through and removable from one of a series of lower openings in at least one of the spaced apart parallel side plates, the series of openings comprising means for positioning the stop member at different distances from the support rod to adjust the angle of the ladder step platform relative to the ladder so the tread can be substantially positioned in a horizontal plane for different angular orientations of the ladder.

7. The ladder step platform of claim 6 wherein the stop member comprises a stop  
15 rod insertable through each or a series of aligned openings in both spaced apart parallel side plates.

8. The ladder step platform of claim 7 wherein the stop rod is insertable and removable through the series of aligned openings while the support rod remains engaged with the ladder.

20 9. The ladder step platform of claim 6 wherein the spaced apart parallel side plates are attachable to the tread, at least one of the side plates being attachable at different lateral locations on the tread so that the side plates can be positioned to flank both rails of ladders having different widths.

10. The ladder step platform of claim 6 including locking means on opposite ends of  
25 the support rod so that the support rod cannot be removed from the upper openings without disengagement of the locking means.

11. A step platform mountable on a ladder at any elevation opposite any hollow rung on the ladder so that the step platform extends beyond the rung and the ladder, the step platform extension comprising:

a tread;

side plates on opposite ends of the tread and extending below the tread, each side plate having at least one hole forming a pair of aligned holes; and

a first rod means insertable through the pair of aligned holes in the side plates an  
5 opposite ends of the tread, the first rod means being located adjacent a rear edge of the tread and being elevated above a second rod means located below the tread, the first rod means being insertable through the pair of aligned holes in the side plates and into a hollow rung positioned opposite the tread, the second rod means being positioned to engage a front edge of the ladder to support the step platform extending beyond the front  
10 edge of the ladder.

12. The step platform of claim 11 wherein the first rod means comprises a continuous rod extending between the opposite side plates.

13. The step platform of claim 12 wherein the first rod includes locking clips at opposite ends thereof to prevent the first rod from migrating out of holes in either of the  
15 side plates.

14. The step platform of claim 12 wherein the second rod means comprises a continuous rod extending through a second pair of aligned holes in opposite side plates.

15. The step platform of claim 14 wherein the second rod is identical to a first rod positionable above the second rod.

20 16. The step platform of claim 14 wherein a series of pairs of aligned holes are located in a lower portion of the side plates, the second rod being insertable through any of the series of aligned holes so that the orientation of the tread can be adjusted to remain substantially horizontal regardless of the angular orientation of the ladder.

17. The step platform of claim 11 wherein one of the side plates is adjustable laterally  
25 relative to the tread so that the step platform can be mounted on ladders having differing widths.

18. The step platform of claim 11 wherein each side plate includes a first section extending above the tread and rearwardly relatively to the tread, at least one hole being located in each first section.

19. The step platform of claim 11 wherein each side plate includes a folded section extending below the tread with fastening means connecting each folded section to the tread.
20. The step platform of claim 11 wherein the tread includes at least two laterally  
5 extending slots with fastening means extending through the slots to attach the tread to one of the side plates so that the lateral spacing of the side plates can be adjusted for mounting the step platform on ladders having different widths.